

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/540,845
Source: PCR
Date Processed by STIC: 3/1/06

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PCT

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/540,845

TIME: 14:00:43

Input Set : E:\ARS-113 - sequence listing.txt

Output Set: N:\CRF4\03012006\J540845.raw

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3 <110> APPLICANT: Applied Research Systems ARS Holding N.V.
5 <120> TITLE OF INVENTION: NOVEL PREADIPOCYTE FACTOR-1-LIKE POLYPEPTIDES
7 <130> FILE REFERENCE: PCT/812
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/540,845
C--> 9 <141> CURRENT FILING DATE: 2005-06-27
9 <150> PRIOR APPLICATION NUMBER: US60/436,815
10 <151> PRIOR FILING DATE: 2002-12-27
12 <160> NUMBER OF SEQ ID NOS: 18
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1663
18 <212> TYPE: DNA
19 <213> ORGANISM: homo sapiens
22 <220> FEATURE:
23 <221> NAME/KEY: CDS
24 <222> LOCATION: (122)..(1180)
26 <400> SEQUENCE: 1
27 agacggcaac gtggacagga agaagcggag ggcgaggagg agcagaggag cacacagatg      60
29 aagcaggtgt ccacgcgtcc ggccgtccat ccgtccgtcc ctccctggggc cggcgctgac      120
31 c atg ccc agc ggc tgc cgc tgc ctg cat ctc gtg tgc ctg ttg tgc att      169
32 Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
33 1 5 10 15
35 ctg ggg gct ccc ggt cag cct gtc cga gcc gat gac tgc agc tcc cac      217
36 Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
37 20 25 30
39 tgt gac ctg gcc cac ggc tgc tgt gca cct gac ggc tcc tgc agg tgt      265
40 Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
41 35 40 45
43 gac ccg ggc tgg gag ggg ctg cac tgt gag cgc tgt gtg agg atg cct      313
44 Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
45 50 55 60
47 ggc tgc cag cac ggt acc tgc cac cag cca tgg cag tgc atc tgc cac      361
48 Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
49 65 70 75 80
51 agt ggc tgg gca ggc aag ttc tgt gac aaa ggc ttc cat ggg cgt gac      409
52 Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Gly Phe His Gly Arg Asp
53 85 90 95
55 tgc gag cgc aag gct gga ccc tgt gaa cag gca ggc tcc cca tgc cgc      457
56 Cys Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg
57 100 105 110
59 aat ggc ggg cag tgc cag gac gac cag ggc ttt gct ctc aac ttc acg      505
60 Asn Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr
61 115 120 125

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63	tgc cgc tgc ttg gtg ggc ttt gtg ggt gcc cgc tgt gag gta aat gtg	553
64	Cys Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Glu Val Asn Val	
65	130 135 140	
67	gat gac tgc ctg atg cgg cct tgt gct aac ggt gcc acc tgc ctt gac	601
68	Asp Asp Cys Leu Met Arg Pro Cys Ala Asn Gly Ala Thr Cys Leu Asp	
69	145 150 155 160	
71	ggc ata aac cgc ttc tcc tgc ctc tgt cct gag ggc ttt gct gga cgc	649
72	Gly Ile Asn Arg Phe Ser Cys Leu Cys Pro Glu Gly Phe Ala Gly Arg	
73	165 170 175	
75	ttc tgc acc atc aac ctg gat gac tgt gcc agc cgc cca tgc cag aga	697
76	Phe Cys Thr Ile Asn Leu Asp Asp Cys Ala Ser Arg Pro Cys Gln Arg	
77	180 185 190	
79	ggg gcc cgc tgt cgg gac cgt gtc cac gac ttc gac tgc ctc tgc ccc	745
80	Gly Ala Arg Cys Arg Asp Arg Val His Asp Phe Asp Cys Leu Cys Pro	
81	195 200 205	
83	agt ggc tat ggt ggc aag acc tgt gag ctt gtc tta cct gtc cca gac	793
84	Ser Gly Tyr Gly Gly Lys Thr Cys Glu Leu Val Leu Pro Val Pro Asp	
85	210 215 220	
87	ccc cca acc aca gtg gac acc cct cta ggg ccc acc tca gct gta gtg	841
88	Pro Pro Thr Thr Val Asp Thr Pro Leu Gly Pro Thr Ser Ala Val Val	
89	225 230 235 240	
91	gta cct gcc acg ggg cca gcc ccc cac agc gca ggg gct ggt ctg ctg	889
92	Val Pro Ala Thr Gly Pro Ala Pro His Ser Ala Gly Ala Gly Leu Leu	
93	245 250 255	
95	cgg atc tca gtg aag gag gtg gtg cgg agg caa gag gct ggg cta ggt	937
96	Arg Ile Ser Val Lys Glu Val Val Arg Arg Gln Glu Ala Gly Leu Gly	
97	260 265 270	
99	gag cct agc ttg gtg gcc ctg gtg gtg ttt ggg gcc ctc act gct gcc	985
100	Glu Pro Ser Leu Val Ala Leu Val Val Phe Gly Ala Leu Thr Ala Ala	
101	275 280 285	
103	ctg gtt ctg gct act gtg ttg ctg acc ctg agg gcc tgg cgc cgg ggt	1033
104	Leu Val Leu Ala Thr Val Leu Leu Thr Leu Arg Ala Trp Arg Arg Gly	
105	290 295 300	
107	gtc tgc ccc cct gga ccc tgt tgc tac cct gcc cca cac tat gct cca	1081
108	Val Cys Pro Pro Gly Pro Cys Cys Tyr Pro Ala Pro His Tyr Ala Pro	
109	305 310 315 320	
111	gcg tgc cag gac cag gag tgt cag gtt agc atg ctg cca gca ggg ctc	1129
112	Ala Cys Gln Asp Gln Glu Cys Gln Val Ser Met Leu Pro Ala Gly Leu	
113	325 330 335	
115	ccc ctg cca cgt gac ttg ccc cct gag cct gga aag acc aca gca ctg	1177
116	Pro Leu Pro Arg Asp Leu Pro Pro Glu Pro Gly Lys Thr Thr Ala Leu	
117	340 345 350	
119	tga tggaggtggg ggctttctgg ccccttccct cacctcttcc acccctcaga	1230
121	ctggagtggt ccgttctcac cacccttcag cttgggtaca cacacagagg agacctcagc	1290
123	ctcacaccag aaatattatt tttttaatac acagaatgta agatggaatt ttatcaaata	1350
125	aaactatgaa aatgcaagtg ggctcctatg ccagaaaaac ccacctggcg ttccagatgc	1410
127	aagagggcca gagcagaggc ctggttctgg ggaagcctca ggatgctgcc caccaaggag	1470
129	tgatttccaa agagtaatcc aggggtgccct tttcccttct ggggaagtgt ggagaggtag	1530
131	agccccagag gagaatgtaa acaagcagcc agcacctctg tataggcccg gcctggatca	1590

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133 gagagagggg agaactctgc aggggtgtggg attgggctca gggacctccg agtgaggcag 1650
135 ggactccctg ctg 1663
138 <210> SEQ ID NO: 2
139 <211> LENGTH: 352
140 <212> TYPE: PRT
141 <213> ORGANISM: homo sapiens
143 <400> SEQUENCE: 2
145 Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
146 1 5 10 15
149 Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
150 20 25 30
153 Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
154 35 40 45
157 Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
158 50 55 60
161 Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
162 65 70 75 80
165 Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Gly Phe His Gly Arg Asp
166 85 90 95
169 Cys Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg
170 100 105 110
173 Asn Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr
174 115 120 125
177 Cys Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Glu Val Asn Val
178 130 135 140
181 Asp Asp Cys Leu Met Arg Pro Cys Ala Asn Gly Ala Thr Cys Leu Asp
182 145 150 155 160
185 Gly Ile Asn Arg Phe Ser Cys Leu Cys Pro Glu Gly Phe Ala Gly Arg
186 165 170 175
189 Phe Cys Thr Ile Asn Leu Asp Asp Cys Ala Ser Arg Pro Cys Gln Arg
190 180 185 190
193 Gly Ala Arg Cys Arg Asp Arg Val His Asp Phe Asp Cys Leu Cys Pro
194 195 200 205
197 Ser Gly Tyr Gly Gly Lys Thr Cys Glu Leu Val Leu Pro Val Pro Asp
198 210 215 220
201 Pro Pro Thr Thr Val Asp Thr Pro Leu Gly Pro Thr Ser Ala Val Val
202 225 230 235 240
205 Val Pro Ala Thr Gly Pro Ala Pro His Ser Ala Gly Ala Gly Leu Leu
206 245 250 255
209 Arg Ile Ser Val Lys Glu Val Val Arg Arg Gln Glu Ala Gly Leu Gly
210 260 265 270
213 Glu Pro Ser Leu Val Ala Leu Val Val Phe Gly Ala Leu Thr Ala Ala
214 275 280 285
217 Leu Val Leu Ala Thr Val Leu Leu Thr Leu Arg Ala Trp Arg Arg Gly
218 290 295 300
221 Val Cys Pro Pro Gly Pro Cys Cys Tyr Pro Ala Pro His Tyr Ala Pro
222 305 310 315 320
225 Ala Cys Gln Asp Gln Glu Cys Gln Val Ser Met Leu Pro Ala Gly Leu
226 325 330 335

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229 Pro Leu Pro Arg Asp Leu Pro Pro Glu Pro Gly Lys Thr Thr Ala Leu
230          340          345          350
233 <210> SEQ ID NO: 3
234 <211> LENGTH: 332
235 <212> TYPE: PRT
236 <213> ORGANISM: homo sapiens
238 <400> SEQUENCE: 3
240 Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His Cys Asp Leu Ala
241 1          5          10          15
244 His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys Asp Pro Gly Trp
245          20          25          30
248 Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro Gly Cys Gln His
249          35          40          45
252 Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His Ser Gly Trp Ala
253          50          55          60
256 Gly Lys Phe Cys Asp Lys Gly Phe His Gly Arg Asp Cys Glu Arg Lys
257 65          70          75          80
260 Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn Gly Gly Gln
261          85          90          95
264 Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys Arg Cys Leu
265          100         105         110
268 Val Gly Phe Val Gly Ala Arg Cys Glu Val Asn Val Asp Asp Cys Leu
269          115         120         125
272 Met Arg Pro Cys Ala Asn Gly Ala Thr Cys Leu Asp Gly Ile Asn Arg
273          130         135         140
276 Phe Ser Cys Leu Cys Pro Glu Gly Phe Ala Gly Arg Phe Cys Thr Ile
277 145         150         155         160
280 Asn Leu Asp Asp Cys Ala Ser Arg Pro Cys Gln Arg Gly Ala Arg Cys
281          165         170         175
284 Arg Asp Arg Val His Asp Phe Asp Cys Leu Cys Pro Ser Gly Tyr Gly
285          180         185         190
288 Gly Lys Thr Cys Glu Leu Val Leu Pro Val Pro Asp Pro Pro Thr Thr
289          195         200         205
292 Val Asp Thr Pro Leu Gly Pro Thr Ser Ala Val Val Val Pro Ala Thr
293          210         215         220
296 Gly Pro Ala Pro His Ser Ala Gly Ala Gly Leu Leu Arg Ile Ser Val
297 225         230         235         240
300 Lys Glu Val Val Arg Arg Gln Glu Ala Gly Leu Gly Glu Pro Ser Leu
301          245         250         255
304 Val Ala Leu Val Val Phe Gly Ala Leu Thr Ala Ala Leu Val Leu Ala
305          260         265         270
308 Thr Val Leu Leu Thr Leu Arg Ala Trp Arg Arg Gly Val Cys Pro Pro
309          275         280         285
312 Gly Pro Cys Cys Tyr Pro Ala Pro His Tyr Ala Pro Ala Cys Gln Asp
313          290         295         300
316 Gln Glu Cys Gln Val Ser Met Leu Pro Ala Gly Leu Pro Leu Pro Arg
317 305         310         315         320
320 Asp Leu Pro Pro Glu Pro Gly Lys Thr Thr Ala Leu
321          325         330

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324 <210> SEQ ID NO: 4
325 <211> LENGTH: 358
326 <212> TYPE: PRT
327 <213> ORGANISM: homo sapiens
329 <400> SEQUENCE: 4
331 Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
332 1 5 10 15
335 Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
336 20 25 30
339 Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
340 35 40 45
343 Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
344 50 55 60
347 Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
348 65 70 75 80
351 Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Gly Phe His Gly Arg Asp
352 85 90 95
355 Cys Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg
356 100 105 110
359 Asn Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr
360 115 120 125
363 Cys Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Glu Val Asn Val
364 130 135 140
367 Asp Asp Cys Leu Met Arg Pro Cys Ala Asn Gly Ala Thr Cys Leu Asp
368 145 150 155 160
371 Gly Ile Asn Arg Phe Ser Cys Leu Cys Pro Glu Gly Phe Ala Gly Arg
372 165 170 175
375 Phe Cys Thr Ile Asn Leu Asp Asp Cys Ala Ser Arg Pro Cys Gln Arg
376 180 185 190
379 Gly Ala Arg Cys Arg Asp Arg Val His Asp Phe Asp Cys Leu Cys Pro
380 195 200 205
383 Ser Gly Tyr Gly Gly Lys Thr Cys Glu Leu Val Leu Pro Val Pro Asp
384 210 215 220
387 Pro Pro Thr Thr Val Asp Thr Pro Leu Gly Pro Thr Ser Ala Val Val
388 225 230 235 240
391 Val Pro Ala Thr Gly Pro Ala Pro His Ser Ala Gly Ala Gly Leu Leu
392 245 250 255
395 Arg Ile Ser Val Lys Glu Val Val Arg Arg Gln Glu Ala Gly Leu Gly
396 260 265 270
399 Glu Pro Ser Leu Val Ala Leu Val Val Phe Gly Ala Leu Thr Ala Ala
400 275 280 285
403 Leu Val Leu Ala Thr Val Leu Leu Thr Leu Arg Ala Trp Arg Arg Gly
404 290 295 300
407 Val Cys Pro Pro Gly Pro Cys Cys Tyr Pro Ala Pro His Tyr Ala Pro
408 305 310 315 320
411 Ala Cys Gln Asp Gln Glu Cys Gln Val Ser Met Leu Pro Ala Gly Leu
412 325 330 335
415 Pro Leu Pro Arg Asp Leu Pro Pro Glu Pro Gly Lys Thr Thr Ala Leu
416 340 345 350

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VERIFICATION SUMMARY

DATE: 03/01/2006

PATENT APPLICATION: US/10/540,845

TIME: 14:00:44

Input Set : E:\ARS-113 - sequence listing.txt

Output Set: N:\CRF4\03012006\J540845.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date